Applicant: Mark Haines et al. Serial No.: 10/635,409 Filed: August 6, 2003 Docket No.: 200210234-1

Title: FILTER FOR PRINTHEAD ASSEMBLY

IN THE CLAIMS

Please cancel claims 1 and 25 without prejudice.

Please amend claims 2, 3, 6, 7, 8, 9, 12, 26, 27, 30, 31, 41-48 as follows:

- 1. (Cancelled)
- 2. (Currently Amended) The filter of-claim 1 claim 44, wherein the fluid passage of the frame is adapted to direct air from the first fluid port to the second fluid port.
- 3. (Currently Amended) The filter of-claim 1 claim 44, wherein the permeable material is adapted to allow air to pass therethrough before the permeable material is wetted by liquid ink and prevent air from passing therethrough when the permeable material is wetted by the liquid ink.
- 4. (Cancelled)
- 5. (Previously Presented) A filter for a printhead assembly, the filter comprising: a frame having an opening and a fluid passage communicated with the opening formed therein;

filter material enclosing the opening and the fluid passage of the frame;

- a first fluid port communicated with the fluid passage of the frame;
- a permeable material communicated with the first fluid port; and
- a second fluid port spaced from the first fluid port and communicated with the fluid passage of the frame,

wherein the permeable material includes a porous plug fitted within the first fluid port, wherein the porous plug is impregnated with a clogging agent.

6. (Currently Amended) The filter of <u>claim 1 claim 44</u>, wherein the permeable material includes a mesh material.

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- 7. (Currently Amended) The filter of <u>-elaim 1 claim 44</u>, wherein the filter material is secured to the frame around a perimeter of the opening.
- 8. (Currently Amended) The filter of-claim 1 claim 44, wherein the filter material has a mesh size in a range of approximately 2 microns to approximately 20 microns.
- 9. (Currently Amended) The filter of elaim 1 claim 44, wherein the filter material is adapted to allow liquid ink to pass therethrough, and wherein the filter material is adapted to prevent air from passing therethrough when the filter material is wetted by the liquid ink.
- 10. (Original) The filter of claim 9, wherein the filter material is adapted to allow air to pass therethrough before the filter material is wetted by the liquid ink.
- 11. (Cancelled)
- 12. (Currently Amended) The filter of <u>claim 1 claim 44</u>, wherein the frame has a substantially rectangular shape, and wherein the first fluid port and the second fluid port extend from a side of the substantially rectangular shape.
- 13-24. (Cancelled)
- 25. (Cancelled)
- 26. (Currently Amended) The printhead assembly of claim 25 claim 48, wherein the fluid passage of the frame is adapted to direct air from the first fluid port to the second fluid port.
- 27. (Currently Amended) The printhead assembly of-elaim 25 claim 48, wherein the permeable material of the filter is adapted to allow air to pass therethrough before the permeable material is wetted by liquid ink and prevent air from passing therethrough when the permeable material is wetted by the liquid ink.

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28. (Cancelled)

29. (Previously Presented) A printhead assembly, comprising:

a carrier having a fluid manifold defined therein;

a printhead die mounted on the carrier and communicated with the fluid manifold; and

a fluid delivery assembly coupled with the carrier and including a filter including a

frame having an opening and a fluid passage communicated with the opening formed therein, filter material enclosing the opening and the fluid passage of the frame, first and second fluid ports communicated with the fluid passage, and a permeable material communicated with the first fluid port,

wherein the second fluid port of the filter communicates with the fluid manifold of the carrier,

wherein the permeable material of the filter includes a porous plug fitted within the first fluid port, wherein the porous plug is impregnated with a clogging agent.

- 30. (Currently Amended) The printhead assembly of <u>claim 25 claim 48</u>, wherein the permeable material of the filter includes a mesh material.
- 31. (Currently Amended) The printhead assembly of <u>claim 25 claim 48</u>, wherein the filter material of the filter is adapted to allow liquid ink to pass therethrough, and wherein the filter material of the filter is adapted to prevent air from passing therethrough when the filter material is wetted by the liquid ink.
- 32. (Original) The printhead assembly of claim 31, wherein the filter material of the filter is adapted to allow air to pass therethrough before the filter material is wetted by the liquid ink.

33-40. (Cancelled)

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- 41. (Currently Amended) The filter of <u>claim 1 claim 44</u>, wherein the fluid passage of the frame communicates with the opening and one of the first face and the second face of the frame.
- 42. (Currently Amended) The filter of <u>claim 1 claim 44</u>, wherein the first fluid port communicates with the fluid passage of the frame and <u>wherein the first fluid port communicates</u> externally of the frame.
- 43. (Currently Amended) The filter of <u>claim 1 claim 44</u>, wherein the second fluid port communicates with the fluid passage of the frame and <u>wherein the second fluid port communicates</u> externally of the frame.
- 44. (Currently Amended) The filter of claim 1 A filter for a printhead assembly, the filter comprising:

a frame having a first face and a second face opposite the first face, an opening communicated with the first face and the second face, and a fluid passage communicated with the opening;

filter material provided on each the first face and the second face of the frame and enclosing the opening and the fluid passage of the frame;

a first fluid port communicated with the fluid passage of the frame;

a permeable material provided in a fluid path of the first fluid port; and

a second fluid port spaced from the first fluid port and communicated with the fluid passage of the frame,

wherein the permeable material includes a porous plug fitted within the first fluid port, wherein the porous plug is impregnated with a clogging agent.

45. (Currently Amended) The printhead assembly of <u>claim 25</u> <u>claim 48</u>, wherein the fluid passage of the frame of the filter communicates with the opening and one of the first face and the second face of the frame of the filter.

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- 46. (Currently Amended) The printhead assembly of claim 25 claim 48, wherein the first fluid port of the filter communicates with the fluid passage of the frame of the filter and wherein the first fluid port of the filter communicates externally of the frame of the filter.
- 47. (Currently Amended) The printhead assembly of claim 25 claim 48, wherein the second fluid port of the filter communicates with the fluid passage of the frame of the filter and wherein the second fluid port of the filter communicates externally of the frame of the filter.
- 48. (Currently Amended) The printhead assembly of claim 25A printhead assembly, comprising:

a carrier having a fluid manifold defined therein;

a printhead die mounted on the carrier and communicated with the fluid manifold; and a fluid delivery assembly coupled with the carrier and including a filter including a frame having a first face and a second face opposite the first face, an opening communicated with the first face and the second face, and a fluid passage communicated with the opening, filter material provided on each the first face and the second face of the frame and enclosing the opening and the fluid passage of the frame, first and second fluid ports communicated with the fluid passage, and a permeable material provided in a fluid path of the first fluid port,

wherein the second fluid port of the filter communicates with the fluid manifold of the carrier,

wherein the permeable material of the filter includes a porous plug fitted within the first fluid port, wherein the porous plug is impregnated with a clogging agent.